

AGE, SEX, AND SIZE COMPOSITION OF PACIFIC HERRING SAMPLED
FROM THE PRINCE WILLIAM SOUND MANAGEMENT AREA, 1973-1983.

By

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INTRODUCTION

The purpose of this report is to present a comprehensive summary of the age, sex, and size composition of the various commercial harvests and test catches landed in the Prince William Sound Pacific herring (*Clupea harengus pallasi*) management area (Figure 1), 1973 - 1983. McCurdy (1986) originally reported most of these data, but because he reported all age 9 and older fish in a single category as "9+", the original raw data files used by McCurdy (1986) were re-examined to derive the age compositions for the 1973-1983 sampled herring for age 9 and older fish. This re-examination of the data was necessary in order to estimate the age- and year-class contribution, by number of fish, to the vernal Prince William Sound commercial herring fisheries, as reported by Sandone (1988). These catch-at-age results (Sandone 1988) were subsequently employed in the catch-at-age or "cohort analysis" (Pope 1972) of the Prince William herring stock (Funk and Sandone *In press*).

A few recently discovered data files pertaining to the above-mentioned reporting period, which were not reported by McCurdy (1986), are summarized in this report. McCurdy (1986) did not report data associated with the bait/food harvests; this report also includes all currently available bait/food harvest sample summaries.

The Prince William Sound herring management area encompasses all coastal waters located in the northcentral Gulf of Alaska between Cape Suckling and Cape Fairfield (Figure 1). This management area is further divided into four management districts: Northern (Figure 2), Montague (Figure 3), Eastern (Figure 2), and General (Figure 1) Districts. The herring fisheries of the Prince William Sound area include: 1) a fall/winter bait and food fishery, 2) a purse seine and gill net sac-roe fishery, 3) a spawn-on-kelp fishery which includes a natural spawn-on-kelp and a pound spawn-on-kelp fishery. The spring sac-roe and spawn-on-kelp can occur in any or all of the above-mentioned management districts, while the bait and food fishery has been restricted to the General District (ADF&G 1987).

METHODS

During the management years 1973-83, opportunistic samples of Pacific herring were collected from commercial purse seine and trawl bait/food harvests, commercial purse seine and gill net sac-roe harvests, herring biomass utilized in the commercial pound fishery, ADF&G variable-mesh gill net catches, test trawl catches, and industry-volunteered test purse seine catches for age, sex and size composition analysis. Data are lacking concerning the specific gear used in the capture of herring for a few of the data summaries presented in this report. However, these data omissions were noted in the appropriate data summaries. Specific sample location and date were also included in the data summaries. In most cases, specific locations

were reported based on the statistical areas of the Prince William Sound commercial salmon fishing districts (Figure 4).

Data collected from samples included the sex, standard length (mm), round weight (g), and age of individual specimens. Ages were determined from scales read on commercial micro-fiche readers. Total number of fish obtained for most individual samples during the reporting period was less than 300, with many individual samples numbering below 100 specimens after accounting for illegible, regenerated or missing scales.

Number of herring sampled were summarized by age and sex in tabular form; mean weight and length data was summarized by age. Since herring older than 12 years old were rare, all herring age 13 and older were reported in a single category as "13+". Corresponding raw data files were unavailable for four data summary tables found in the 1979, 1980, 1981, and 1982 Prince William Sound Area Annual Finfish Management Reports (Pirtle 1980; Randall et al. 1981, 1982, and 1983, respectively) and one summary table located in an archival file. Although usually incomplete, these tabular data summaries were modified, appropriately noted, and also included in this report.

RESULTS

The results of this project, the age, sex and size data summaries of Pacific herring sampled from the various commercial harvests and test catches during the management years 1973-83, are presented in Tables 1-51.

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Table 1. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Bligh Island, Northern District (221-40), Prince William Sound, April 18, 19, 20, and May 4, 1973.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/18	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	15	8	-	23	16.2	75	29.7	23	186	14.0	23
	4	7	6	-	13	9.2	86	19.4	13	195	12.1	13
	5	31	23	-	54	38.0	120	23.4	54	209	16.0	54
	6	12	25	-	37	26.1	145	23.0	37	221	17.5	37
	7	6	7	-	13	9.2	142	34.9	13	221	18.6	13
	8	-	1	-	1	.7	210	-	1	245	-	1
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	1	-	1	.7	180	-	1	225	-	1
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		71	71	-	142	100.0	119	36.6	142	209	20.4	142
4/19	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	3	2	-	5	17.9	54	16.3	5	170	10.0	5
	4	1	2	-	3	10.7	107	6.6	3	209	3.6	3
	5	4	5	-	9	32.1	120	14.9	9	215	8.1	9
	6	3	7	-	10	35.7	148	15.1	10	227	4.3	10
	7	-	1	-	1	3.6	180	-	1	236	-	1
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		11	17	-	28	100.0	119	37.9	28	211	21.6	28
4/20	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	16	3	-	19	16.1	73	22.9	19	183	14.8	19
	4	17	6	-	23	19.5	112	30.7	23	209	15.3	23
	5	28	17	-	45	38.1	126	26.1	45	218	11.0	45
	6	18	6	-	24	20.3	145	22.9	24	228	10.7	24
	7	2	4	-	6	5.1	164	22.3	6	232	9.6	6
	8	1	-	-	1	.8	176	-	1	241	-	1
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		82	36	-	118	100.0	121	35.7	118	213	19.6	118

-Continued-

Table 1. (page 2 of 2)

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	3	1	-	4	7.0	81	34.0	4	187	20.2	4
	4	5	5	-	10	17.5	105	15.9	10	201	8.9	10
	5	5	16	-	21	36.8	133	20.5	21	215	9.5	21
5/ 4	6	9	6	-	15	26.3	127	16.9	15	210	6.1	15
	7	2	5	-	7	12.3	145	17.6	7	220	6.9	7
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		24	33	-	57	100.0	124	25.3	57	210	12.5	57
	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	37	14	-	51	14.8	73	26.7	51	183	14.8	51
	4	30	19	-	49	14.2	103	26.2	49	203	14.0	49
	5	68	61	-	129	37.4	124	23.8	129	214	13.4	129
All periods	6	42	44	-	86	24.9	142	22.1	86	222	14.4	86
	7	10	17	-	27	7.8	149	29.1	27	224	14.7	27
	8	1	1	-	2	.6	193	24.0	2	243	2.8	2
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	1	-	1	.3	180	-	1	225	-	1
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Total		188	157	-	345	100.0	121	34.7	345	211	19.2	345

Table 2. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Rocky Bay, Montague District (227-20), Prince William Sound, April 28 and 30, 1973.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/28	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	61	45	-	106	92.2	67	9.0	105	175	7.4	106
	4	3	6	-	9	7.8	94	31.2	9	191	20.3	9
	5	-	-	-	-	-	-	-	-	-	-	-
	6	-	-	-	-	-	-	-	-	-	-	-
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		64	51	-	115	100.0	69	14.1	114	176	9.9	115
4/30	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	53	42	-	95	88.8	69	10.3	95	176	8.4	95
	4	8	1	-	9	8.4	71	6.7	8	176	7.5	9
	5	-	3	-	3	2.8	131	27.6	3	210	10.5	3
	6	-	-	-	-	-	-	-	-	-	-	-
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		61	46	-	107	100.0	71	14.8	106	177	10.0	107
All periods	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	114	87	-	201	90.5	68	9.7	200	176	7.9	201
	4	11	7	-	18	8.1	83	25.6	17	183	16.8	18
	5	-	3	-	3	1.4	131	27.6	3	210	10.5	3
	6	-	-	-	-	-	-	-	-	-	-	-
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Total		125	97	-	222	100.0	70	14.4	220	177	10.0	222

Table 3. Age, sex and size data summary of Pacific herring sampled from the commercial gill net sac-roe harvest, Bligh Island, Northern District (221-40), Prince William Sound, April 24, 1973.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/24	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	11	11	-	22	18.5	78	9.7	22	185	8.1	22
	4	8	5	-	13	10.9	102	16.8	13	207	11.4	13
	5	18	12	-	30	25.2	124	27.7	30	216	14.2	30
	6	24	13	-	37	31.1	141	15.7	37	228	14.7	37
	7	9	7	-	16	13.4	153	26.3	16	227	10.7	16
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	1	-	1	.8	196	-	1	252	-	1
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		70	49	-	119	100.0	123	33.3	119	215	20.2	119

Table 4. Age and sex data summary of Pacific herring sampled from test purse seine catches, Green Island, Montague District (227-20), Prince William Sound, May 11 and 18, 1973. ^a

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	164	88	-	252	88.7	-	-	-	-	-	-
	4	8	14	-	22	7.8	-	-	-	-	-	-
	5	2	3	-	5	1.7	-	-	-	-	-	-
All periods	6	3	1	-	4	1.4	-	-	-	-	-	-
	7	1	-	-	1	0.4	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
	Period total	178	106	-	284	100.0	-	-	-	-	-	-

^a Raw age, sex, and size data unavailable. Data presented in this report was found summarized in tabular form in an archival file.

Table 5. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Columbia Bay, Northern District (222-10), Prince William Sound, April 11 and 13, 1974.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/11	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	3	2	-	5	1.4	-	-	-	179	8.8	5
	4	140	113	-	253	73.3	-	-	-	192	10.1	253
	5	25	28	-	53	15.4	-	-	-	211	16.2	53
	6	13	13	-	26	7.5	-	-	-	223	9.6	26
	7	3	4	-	7	2.0	-	-	-	228	6.9	7
	8	1	-	-	1	.3	-	-	-	223	-	1
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		185	160	-	345	100.0	-	-	-	198	15.6	345
4/13	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	1	-	1	.3	100	-	1	194	-	1
	4	72	84	-	156	53.4	101	23.8	105	204	13.8	156
	5	48	28	-	76	26.0	129	21.0	38	220	9.8	76
	6	25	25	-	50	17.1	148	25.3	29	226	10.3	50
	7	5	4	-	9	3.1	152	18.7	7	230	10.2	9
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		150	142	-	292	100.0	116	30.4	180	213	15.6	292
All periods	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	3	3	-	6	.9	100	-	1	182	9.9	6
	4	212	197	-	409	64.2	101	23.8	105	197	12.9	409
	5	73	56	-	129	20.3	129	21.0	38	216	13.5	129
	6	38	38	-	76	11.9	148	25.3	29	225	10.2	76
	7	8	8	-	16	2.5	152	18.7	7	229	8.7	16
	8	1	-	-	1	.2	-	-	-	223	-	1
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Total		335	302	-	637	100.0	116	30.4	180	205	17.2	637

Table 6. Age, sex, and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Green Island, Montague District (227-20), Prince William Sound, April 17 and 18, 1974.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male (No.)	Female (No.)	Unknown (No.)	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/17	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	3	2	-	5	4.4	-	-	-	185	5.5	5
	4	61	43	-	104	91.2	-	-	-	194	6.6	104
	5	1	3	-	4	3.5	-	-	-	218	10.3	4
	6	-	1	-	1	.9	-	-	-	216	-	1
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		65	49	-	114	100.0	-	-	-	194	8.5	114
4/18	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	3	1	-	4	2.9	-	-	-	177	10.2	4
	4	68	62	-	130	93.5	-	-	-	189	7.0	130
	5	-	4	-	4	2.9	-	-	-	193	3.9	4
	6	-	1	-	1	.7	-	-	-	230	-	1
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		72	67	-	139	100.0	-	-	-	189	8.1	139
All periods	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	6	3	-	9	3.6	-	-	-	181	8.6	9
	4	129	105	-	234	92.5	-	-	-	191	7.2	234
	5	1	7	-	8	3.2	-	-	-	206	15.2	8
	6	1	1	-	2	.8	-	-	-	223	9.9	2
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Total		137	116	-	253	100.0	-	-	-	192	8.7	253

Table 7. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Northern District (221-50), Prince William Sound, April 10, 11, 15, and 30, 1975.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/10	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	4	4	-	8	9.4	106	8.5	8	210	9.8	8
	5	28	26	-	54	63.5	121	19.9	54	215	11.1	54
	6	7	13	-	20	23.5	165	16.0	20	234	7.4	20
	7	2	1	-	3	3.5	163	3.6	3	231	2.1	3
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		41	44	-	85	100.0	131	27.4	85	219	13.3	85
4/11	1	-	-	+	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	4	4	-	8	11.3	100	18.2	8	202	11.4	8
	5	38	14	-	52	73.2	118	19.3	52	213	10.5	52
	6	5	5	-	10	14.1	150	14.7	10	232	7.4	10
	7	-	1	-	1	1.4	174	-	1	241	-	1
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	+	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		47	24	-	71	100.0	121	23.5	71	215	13.2	71
4/15	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	23	13	-	36	9.0	72	10.4	36	176	7.9	36
	4	56	48	-	104	25.9	97	13.8	104	194	9.4	104
	5	111	133	-	244	60.7	116	16.6	244	204	9.2	244
	6	9	9	-	18	4.5	149	18.5	18	220	8.5	18
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		199	203	-	402	100.0	108	22.4	402	200	13.1	402

-Continued-

Table 7. (page 2 of 2)

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	1	-	1	.8	46	-	1	155	-	1
	3	16	7	-	23	18.0	61	10.5	23	170	8.9	23
	4	42	24	-	66	51.6	98	12.3	66	194	7.3	66
	5	25	13	-	38	29.7	115	14.3	38	204	16.6	38
4/30	6	-	-	-	-	-	-	-	-	-	-	-
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
	Period total	83	45	-	128	100.0	96	22.5	128	192	16.4	128
	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	1	-	1	.1	46	-	1	155	-	1
	3	39	20	-	59	8.6	67	11.6	59	174	8.9	59
	4	106	80	-	186	27.1	98	13.3	186	195	9.4	186
	5	202	186	-	388	56.6	117	17.3	388	207	11.4	388
All periods	6	21	27	-	48	7.0	156	18.2	48	228	10.1	48
	7	2	2	-	4	.6	166	6.2	4	234	5.1	4
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
	Total	370	316	-	686	100.0	110	25.4	686	202	16.2	686

Table 8. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Montague District (227-20), Prince William Sound, April 19 and 22, 1975.

Sample Period	Age (years)	Sex			Percent of Total		Weight		Std. Length			
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/19	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	7	6	-	13	5.9	72	8.3	13	177	8.2	13
	4	60	51	-	111	50.0	96	11.2	111	192	11.1	111
	5	46	49	-	95	42.8	106	16.0	95	199	9.0	95
	6	2	1	-	3	1.4	146	17.0	3	189	63.8	3
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		115	107	-	222	100.0	99	16.6	222	194	12.9	222
4/22	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	20	6	-	26	9.0	74	10.6	26	181	7.9	26
	4	91	78	-	169	58.3	96	9.4	169	193	8.7	169
	5	34	56	-	90	31.0	110	17.2	90	200	14.0	90
	6	1	4	-	5	1.7	140	43.4	5	217	24.1	5
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		146	144	-	290	100.0	99	17.4	290	194	12.4	290
All periods	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	27	12	-	39	7.6	74	9.9	39	179	8.1	39
	4	151	129	-	280	54.7	96	10.1	280	193	9.7	280
	5	80	105	-	185	36.1	108	16.6	185	199	11.7	185
	6	3	5	-	8	1.6	142	34.1	8	206	41.3	8
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Total		261	251	-	512	100.0	99	17.1	512	194	12.6	512

Table 9. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Montague District (227-20), Prince William Sound, May 8 and 9, 1976.

Sample Period	Age (years)	Sex			Percent of Total		Weight		Std. Length			
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	
5/ 8	1	-	-	-	-	-	-	-	-	-	-	
	2	-	-	-	-	-	-	-	-	-	-	
	3	7	4	-	11	10.7	60	19.1	11	160	15.4	
	4	12	14	-	26	25.2	95	19.4	26	184	10.5	
	5	14	18	-	32	31.1	118	15.5	32	196	7.7	
	6	20	12	-	32	31.1	127	12.4	32	201	7.5	
	7	2	-	-	2	1.9	156	39.6	2	217	9.2	
	8	-	-	-	-	-	-	-	-	-	-	
	9	-	-	-	-	-	-	-	-	-	-	
	10	-	-	-	-	-	-	-	-	-	-	
	11	-	-	-	-	-	-	-	-	-	-	
	12	-	-	-	-	-	-	-	-	-	-	
	13+	-	-	-	-	-	-	-	-	-	-	
Period total		55	48	-	103	100.0	109	27.2	103	191	15.8	103
5/ 9	1	-	-	-	-	-	-	-	-	-	-	
	2	-	-	-	-	-	-	-	-	-	-	
	3	3	2	-	5	5.4	75	17.8	5	174	16.1	5
	4	7	2	-	9	9.7	84	4.7	9	186	5.7	9
	5	9	14	-	23	24.7	108	13.6	23	198	7.5	23
	6	32	20	-	52	55.9	122	12.0	52	205	6.5	52
	7	3	1	-	4	4.3	131	6.6	4	212	2.4	4
	8	-	-	-	-	-	-	-	-	-	-	
	9	-	-	-	-	-	-	-	-	-	-	
	10	-	-	-	-	-	-	-	-	-	-	
	11	-	-	-	-	-	-	-	-	-	-	
	12	-	-	-	-	-	-	-	-	-	-	
	13+	-	-	-	-	-	-	-	-	-	-	
Period total		54	39	-	93	100.0	113	19.2	93	200	11.4	93
All periods	1	-	-	-	-	-	-	-	-	-	-	
	2	-	-	-	-	-	-	-	-	-	-	
	3	10	6	-	16	8.2	65	19.4	16	165	16.6	16
	4	19	16	-	35	17.9	92	17.5	35	185	9.5	35
	5	23	32	-	55	28.1	114	15.4	55	196	7.6	55
	6	52	32	-	84	42.9	124	12.3	84	203	7.2	84
	7	5	1	-	6	3.1	139	22.7	6	213	5.1	6
	8	-	-	-	-	-	-	-	-	-	-	
	9	-	-	-	-	-	-	-	-	-	-	
	10	-	-	-	-	-	-	-	-	-	-	
	11	-	-	-	-	-	-	-	-	-	-	
	12	-	-	-	-	-	-	-	-	-	-	
	13+	-	-	-	-	-	-	-	-	-	-	
Total		109	87	-	196	100.0	111	23.7	196	195	14.6	196

Table 10. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Port Gravina, Eastern District (221-30), Prince William Sound, June 6, 1976.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
6/ 6	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	4	9	-	13	12.5	58	14.2	13	166	17.9	13
	4	15	20	-	35	33.7	75	13.2	35	174	8.3	35
	5	2	12	-	14	13.5	82	18.4	14	179	12.0	14
	6	1	12	-	13	12.5	123	14.7	13	203	11.6	13
	7	4	18	-	22	21.2	138	26.6	22	207	11.0	22
	8	-	6	-	6	5.8	152	27.2	6	214	13.8	6
	9	1	-	-	1	1.0	159	-	1	225	-	1
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		27	77	-	104	100.0	98	37.1	104	187	20.7	104

Table 11. Age, sex and size data summary of Pacific herring sampled from variable-mesh gill net catches, Northern District (221-50), Prince William Sound, April 12, 14, and 16, 1976.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male (No.)	Female (No.)	Unknown (No.)	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/12	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	2	3	-	5	11.1	118	26.6	5	197	15.8	5
	5	10	4	-	14	31.1	116	17.2	14	200	8.3	14
	6	6	12	-	18	40.0	146	20.8	18	211	9.5	18
	7	4	4	-	8	17.8	161	10.7	8	207	31.6	8
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		22	23	-	45	100.0	136	25.6	45	205	16.3	45
4/14	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	1	-	-	1	.8	60	-	1	160	-	1
	4	12	13	-	25	19.5	106	21.6	25	189	6.2	25
	5	34	13	-	47	36.7	114	19.7	47	196	10.2	47
	6	22	20	-	42	32.8	129	20.8	42	204	8.8	42
	7	4	7	-	11	8.6	155	30.5	11	216	11.8	11
	8	-	2	-	2	1.6	164	2.8	2	221	.7	2
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		73	55	-	128	100.0	121	26.2	128	199	12.7	128
4/16	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	6	5	-	11	7.2	106	13.2	11	206	8.9	11
	5	20	17	-	37	24.3	125	23.3	37	215	10.4	37
	6	51	22	-	73	48.0	133	23.7	73	218	9.3	73
	7	10	11	-	21	13.8	157	28.6	21	231	10.5	21
	8	2	6	-	8	5.3	186	16.5	8	239	4.8	8
	9	1	1	-	2	1.3	170	.0	2	236	4.9	2
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		90	62	-	152	100.0	136	29.0	152	220	12.2	152

-Continued-

Table 11. (page 2 of 2)

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male (No.)	Female (No.)	Unknown (No.)	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	1	-	-	1	.3	60	-	1	160	-	1
	4	20	21	-	41	12.6	107	20.3	41	194	11.3	41
	5	64	34	-	98	30.2	119	21.3	98	204	13.4	98
All periods	6	79	54	-	133	40.9	133	22.9	133	213	11.2	133
	7	18	22	-	40	12.3	157	26.1	40	222	19.3	40
	8	2	8	-	10	3.1	182	17.3	10	235	8.9	10
	9	1	1	-	2	.6	170	.0	2	236	4.9	2
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
	Total	185	140	-	325	100.0	130	28.3	325	210	16.2	325

}

Table 12. Age, sex and size data summary of Pacific herring sampled from test gill net catches, Montague District (227-20), Prince William Sound, April 30, 1976. ^a

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/30	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	3	2	-	5	5.4	101	8.8	5	189	6.6	5
	5	16	11	-	27	29.0	121	21.0	27	199	10.2	27
	6	23	28	-	51	54.8	136	19.6	51	205	7.9	51
	7	4	4	-	8	8.6	160	21.0	8	215	9.9	8
	8	-	2	-	2	2.2	173	7.1	2	222	3.5	2
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		46	47	-	93	100.0	132	23.9	93	203	10.4	93

^a Specific type of gill net gear used is unknown.

Table 13. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Galena Bay, Northern District (221-50), Prince William Sound, April 9, 1977.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4 / 9	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	7	5	-	12	4.9	71	17.7	12	183	11.2	12
	4	6	15	-	21	8.6	92	15.3	21	194	10.9	21
	5	30	34	-	64	26.2	115	20.3	64	207	10.2	64
	6	27	25	-	52	21.3	131	19.0	52	216	8.6	52
	7	30	50	-	80	32.8	146	21.4	80	221	9.9	80
	8	4	8	-	12	4.9	153	20.1	12	226	9.9	12
	9	2	1	-	3	1.2	171	53.6	3	234	16.0	3
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		106	138	-	244	100.0	127	29.6	244	213	14.7	244

Table 14. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Columbia Bay, Northern District (222-10), Prince William Sound, April 12, 1977.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/12	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	13	9	-	22	11.9	62	11.2	22	174	7.1	22
	4	11	7	-	18	9.7	77	15.0	18	184	10.1	18
	5	23	17	-	40	21.6	103	15.2	40	203	8.6	40
	6	15	17	-	32	17.3	128	21.9	32	214	10.2	32
	7	30	32	-	62	33.5	137	23.1	62	217	9.8	62
	8	2	6	-	8	4.3	172	28.8	8	231	10.7	8
	9	1	2	-	3	1.6	187	16.0	3	233	2.9	3
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		95	90	-	185	100.0	116	36.0	185	206	18.6	185

Table 15. Age, sex and size data summary of Pacific herring sampled from variable-mesh gill net catches, Tatitlek Narrows, Northern District (221-40), Prince William Sound, April 6, 1977.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4 / 6	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	1	-	-	1	1.2	92	-	1	193	-	1
	4	10	4	-	14	16.9	94	8.4	14	198	6.1	14
	5	14	10	-	24	28.9	123	20.5	24	211	8.5	24
	6	11	14	-	25	30.1	155	20.0	24	225	8.2	25
	7	8	8	-	16	19.3	167	20.8	16	228	9.7	16
	8	3	-	-	3	3.6	183	20.1	3	239	6.1	3
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		47	36	-	83	100.0	138	32.8	82	217	14.3	83

Table 16. Age, sex and size data summary of Pacific herring sampled from variable-mesh gill net catches, Galena Bay, Northern District (221-50), Prince William Sound, April 9, 1977.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/ 9	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	14	-	-	14	10.0	62	21.8	14	177	14.9	14
	4	9	3	-	12	8.6	80	26.0	12	190	17.2	12
	5	21	7	-	28	20.0	108	16.0	28	209	8.9	28
	6	24	13	-	37	26.4	128	26.2	37	218	11.5	37
	7	33	10	-	43	30.7	145	30.0	43	225	14.8	43
	8	-	6	-	6	4.3	172	6.2	6	235	6.3	6
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		101	39	-	140	100.0	120	37.7	140	212	20.2	140

Table 17. Age, sex, and size data summary of Pacific herring sampled from mid-water trawl test catches, Goose Island, Northern District, Prince William Sound, February 27, 1978.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male (No.)	Female (No.)	Unknown (No.)	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
2/27	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	1	1	-	2	8.7	51	15.6	2	168	17.0	2
	4	4	4	2	10	43.5	67	26.6	10	173	24.2	10
	5	3	2	-	5	21.7	75	28.7	5	182	16.5	5
	6	3	2	-	5	21.7	81	28.2	5	187	20.1	5
	7	1	-	-	1	4.3	138	-	1	224	-	1
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		12	9	2	23	100.0	73	29.4	23	180	22.5	23

Table 18. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Northern District (221-50), Prince William Sound, April 15, 16, and 21, 1978.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/15	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	7	4	-	11	9.9	69	4.9	11	171	5.3	11
	4	20	19	-	39	35.1	83	8.6	39	184	6.9	39
	5	20	13	-	33	29.7	94	13.1	33	188	7.9	33
	6	8	2	-	10	9.0	110	13.9	10	199	7.9	10
	7	11	6	-	17	15.3	132	17.2	17	209	6.9	17
	8	-	1	-	1	.9	166	-	1	220	-	1
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		66	45	-	111	100.0	96	23.2	111	189	13.2	111
4/16	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	1	-	1	1.6	60	-	1	168	-	1
	4	4	3	-	7	10.9	93	10.4	7	189	5.9	7
	5	8	10	-	18	28.1	101	15.5	18	194	7.9	18
	6	11	7	-	18	28.1	116	15.5	18	203	7.1	18
	7	4	4	-	8	12.5	110	30.4	8	201	19.7	8
	8	4	5	-	9	14.1	141	14.5	9	217	6.8	9
	9	2	-	-	2	3.1	143	9.9	2	217	7.1	2
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	1	-	1	1.6	152	-	1	215	-	1
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		33	31	-	64	100.0	113	23.9	64	201	13.4	64
4/21	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	2	-	2	2.9	66	18.4	2	170	16.3	2
	4	8	15	-	23	33.3	81	12.0	23	186	6.7	23
	5	11	8	-	19	27.5	87	9.5	19	190	6.8	19
	6	4	4	-	8	11.6	88	14.1	8	193	12.3	8
	7	7	1	-	8	11.6	117	19.0	8	208	11.0	8
	8	6	1	-	7	10.1	119	9.8	7	211	5.4	7
	9	1	1	-	2	2.9	113	.7	2	214	2.8	2
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		37	32	-	69	100.0	92	19.3	69	193	13.1	69

-Continued-

Table 18. (page 2 of 2)

Sample Period	Age (years)	Sex			Percent of		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	7	7	-	14	5.7	68	7.1	14	170	6.5	14
	4	32	37	-	69	28.3	83	10.4	69	185	6.9	69
	5	39	31	-	70	28.7	94	13.8	70	190	7.9	70
All periods	6	23	13	-	36	14.8	108	18.2	36	200	9.2	36
	7	22	11	-	33	13.5	123	22.9	33	207	12.1	33
	8	10	7	-	17	7.0	134	18.2	17	215	6.6	17
	9	3	1	-	4	1.6	128	18.5	4	216	4.7	4
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	1	-	1	.4	152	-	1	215	-	1
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
	Total	136	108	-	244	100.0	99	23.8	244	193	14.0	244

Table 19. Age, sex, and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Northern District (222-10), Prince William Sound, June 14, 1978.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
	1	-	-	-	-	-	-	-	-	-	-	-
	2	6	3	-	9	5.4	34	9.2	9	135	11.1	9
	3	6	8	-	14	8.3	40	13.5	14	141	14.4	14
	4	8	9	-	17	10.1	68	16.2	17	167	13.1	17
	5	24	17	-	41	24.4	87	14.0	41	180	9.4	41
6/14	6	38	37	-	75	44.6	93	11.0	75	187	6.8	75
	7	2	10	-	12	7.1	108	14.7	12	193	7.7	12
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		84	84	-	168	100.0	82	23.8	168	177	19.0	168

Table 20. Age, sex, and size data summary of Pacific herring sampled from test purse seine catches, Bligh Island Reef, Northern District (221-40), Prince William Sound, April 11, 1978.

Sample Period	Age (years)	Sex			Percent		Weight			Std. Length		
		Male (No.)	Female (No.)	Unknown (No.)	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/11	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	-	-	10	10	26.3	71	12.2	10	182	10.7	10
	5	-	-	7	7	18.4	88	21.0	7	194	16.9	7
	6	-	1	8	9	23.7	89	9.1	9	195	7.1	9
	7	1	-	5	6	15.8	109	7.1	6	209	6.5	6
	8	-	-	3	3	7.9	117	9.2	3	215	2.3	3
	9	-	-	3	3	7.9	119	11.0	3	218	6.4	3
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		1	1	36	38	100.0	92	20.6	38	197	15.5	38

Table 21. Age, sex, and size data summary of Pacific herring sampled from the commercial bait/food harvest, Prince William Sound, October 1 through December 31, 1978.

Sample Period	Age (years)	Sex			Percent		Weight			Std. Length		
		Male (No.)	Female (No.)	Unknown (No.)	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
All periods	1	-	-	-	-	-	-	-	-	-	-	-
	2	10	3	-	13	1.7	31	-	-	153	-	-
	3	167	149	-	316	42.0	63	-	-	175	-	-
	4	105	85	-	190	25.3	67	-	-	179	-	-
	5	59	44	-	103	13.7	77	-	-	187	-	-
	6	36	35	-	71	9.4	88	-	-	194	-	-
	7	23	18	-	41	5.5	104	-	-	203	-	-
	8	9	4	-	13	1.7	97	-	-	202	-	-
	9	-	4	-	4	0.5	109	-	-	211	-	-
	10	1	-	-	1	0.1	133	-	-	246	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		410	342	-	752	100.0	71	-	-	181	-	-

a Raw data file unavailable. Table modified from Table 24 of the 1979 PWS Annual Management Report (Pirtle 1980).

b Gear type used was either purse seine, trawl or both.

Table 22. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Northern District (222-10), Prince William Sound, April 9 and 14, 1979.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/ 9	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	62	59	2	123	73.2	73	10.3	122	187	7.8	123
	4	13	13	-	26	15.5	77	11.1	26	189	8.0	26
	5	8	4	-	12	7.1	105	17.1	12	207	9.3	12
	6	1	-	-	1	.6	115	-	1	221	-	1
	7	2	-	-	2	1.2	142	4.2	2	227	3.5	2
	8	2	2	-	4	2.4	155	12.5	4	229	2.5	4
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		88	78	2	168	100.0	79	19.6	167	190	12.0	168
4/14	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	35	15	-	50	60.2	-	-	-	184	8.1	50
	4	8	6	-	14	16.9	-	-	-	183	8.1	14
	5	5	6	-	11	13.3	-	-	-	202	13.7	11
	6	4	1	-	5	6.0	-	-	-	200	11.7	5
	7	1	1	-	2	2.4	-	-	-	198	10.6	2
	8	1	-	-	1	1.2	-	-	-	230	-	1
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		54	29	-	83	100.0	-	-	-	188	12.5	83
All periods	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	97	74	2	173	68.9	73	10.3	122	186	8.0	173
	4	21	19	-	40	15.9	77	11.1	26	187	8.5	40
	5	13	10	-	23	9.2	105	17.1	12	205	11.7	23
	6	5	1	-	6	2.4	115	-	1	204	13.4	6
	7	3	1	-	4	1.6	142	4.2	2	212	17.9	4
	8	3	2	-	5	2.0	155	12.5	4	229	2.3	5
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Total		142	107	2	251	100.0	79	19.6	167	190	12.2	251

Table 23. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Northern District (221-40), Prince William Sound, April 17, 1979.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/17	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	40	25	-	65	79.3	-	-	-	181	9.9	65
	4	9	5	-	14	17.1	-	-	-	179	13.2	14
	5	1	1	-	2	2.4	-	-	-	187	12.7	2
	6	-	-	-	-	-	-	-	-	-	-	-
	7	1	-	-	1	1.2	-	-	-	234	-	1
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		51	31	-	82	100.0	-	-	-	181	12.0	82

)

Table 24. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Eastern District (221-20 and 221-30), Prince William Sound, April 17, 18, and 19, 1979.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/17	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	1	-	1	.6	28	-	1	129	-	1
	3	86	60	-	146	84.9	77	11.5	146	180	7.4	146
	4	9	7	-	16	9.3	81	12.9	16	183	9.3	16
	5	2	4	-	6	3.5	100	7.8	6	198	4.8	6
	6	1	1	-	2	1.2	116	4.2	2	207	2.1	2
	7	1	-	-	1	.6	159	-	1	227	-	1
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		99	73	-	172	100.0	79	14.8	172	181	10.1	172
4/18	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	54	59	-	113	91.1	74	12.4	113	179	7.7	113
	4	6	4	-	10	8.1	72	16.3	10	176	10.9	10
	5	-	1	-	1	.8	81	-	1	188	-	1
	6	-	-	-	-	-	-	-	-	-	-	-
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		60	64	-	124	100.0	73	12.6	124	179	8.0	124
4/19	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	103	117	-	220	94.4	74	14.4	220	180	9.5	220
	4	6	6	-	12	5.2	69	16.7	12	180	11.1	12
	5	-	-	-	-	-	-	-	-	-	-	-
	6	-	1	-	1	.4	69	-	1	170	-	1
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		109	124	-	233	100.0	74	14.5	233	180	9.5	233

-Continued-

Table 24. (page 2 of 2)

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	1	-	1	.2	28	-	1	129	-	1
	3	243	236	-	479	90.5	75	13.2	479	180	8.5	479
	4	21	17	-	38	7.2	75	15.6	38	180	10.4	38
	5	2	5	-	7	1.3	98	10.2	7	197	5.9	7
All periods	6	1	2	-	3	.6	100	27.3	3	194	21.1	3
	7	1	-	-	1	.2	159	-	1	227	-	1
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
	Total	268	261	-	529	100.0	75	14.4	529	180	9.4	529

Table 25. Age, sex and size data summary of Pacific herring sampled from the commercial gill net sac-roe harvest, Northern District (222-10), Prince William Sound, April 13 and 14, 1979.^a

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/13	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	6	3	-	9	11.5	119	13.6	9	219	7.8	9
	5	14	2	-	16	20.5	115	10.2	16	217	6.0	16
	6	23	7	-	30	38.5	127	20.3	30	224	10.6	30
	7	12	4	-	16	20.5	135	14.7	16	227	5.6	16
	8	3	-	-	3	3.8	139	19.1	3	225	6.5	3
	9	4	-	-	4	5.1	136	19.5	4	227	8.3	4
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		62	16	-	78	100.0	126	18.0	78	223	8.9	78
4/14	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	2	-	-	2	3.3	-	-	-	188	5.7	2
	4	1	3	-	4	6.7	-	-	-	210	3.3	4
	5	11	8	-	19	31.7	-	-	-	214	8.2	19
	6	4	11	-	15	25.0	-	-	-	225	10.2	15
	7	5	4	-	9	15.0	-	-	-	224	5.2	9
	8	6	2	-	8	13.3	-	-	-	231	7.4	8
	9	1	2	-	3	5.0	-	-	-	231	5.0	3
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		30	30	-	60	100.0	-	-	-	220	12.0	60
All periods	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	2	-	-	2	1.4	-	-	-	188	5.7	2
	4	7	6	-	13	9.4	119	13.6	9	216	7.8	13
	5	25	10	-	35	25.4	115	10.2	16	215	7.3	35
	6	27	18	-	45	32.6	127	20.3	30	224	10.3	45
	7	17	8	-	25	18.1	135	14.7	16	226	5.4	25
	8	9	2	-	11	8.0	139	19.1	3	230	7.4	11
	9	5	2	-	7	5.1	136	19.5	4	228	6.9	7
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Total		92	46	-	138	100.0	126	18.0	78	222	10.4	138

^a Data may be from test gill net catches since no gill net harvest was reported.

Table 26. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Montague District (227-20), Prince William Sound, April 7, 8, and 9, 1980.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/ 7	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	13	4	-	17	10.9	82	12.6	17	180	9.6	17
	4	66	51	-	117	75.0	100	15.5	117	192	12.8	117
	5	7	9	-	16	10.3	110	25.0	16	200	12.2	16
	6	2	1	-	3	1.9	146	40.8	3	213	21.1	3
	7	1	2	-	3	1.9	142	2.6	3	222	6.5	3
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		89	67	-	156	100.0	101	20.0	156	192	14.1	156
4/ 8	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	12	5	-	17	13.3	72	16.1	17	177	12.1	17
	4	50	44	-	94	73.4	96	18.8	94	192	10.7	94
	5	8	8	1	17	13.3	95	23.5	17	194	15.4	17
	6	-	-	-	-	-	-	-	-	-	-	-
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		70	57	1	128	100.0	92	20.6	128	190	12.7	128
4/ 9	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	3	-	-	3	11.5	73	6.4	3	185	5.7	3
	4	11	10	-	21	80.8	85	16.2	21	190	9.2	21
	5	-	2	-	2	7.7	107	.7	2	198	2.8	2
	6	-	-	-	-	-	-	-	-	-	-	-
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		14	12	-	26	100.0	86	16.3	26	190	8.8	26

-Continued-

Table 26. (page 2 of 2)

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length			
		Male	Female	Unknown	Total	Total	(gm)	Mean Dev.	Std. Weighed	Number	Mean (mm)	Std. Dev.	Measured Number
	1	-	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-	-
	3	28	9	-	37	11.9	77	14.6	37	179	10.7	37	
	4	127	105	-	232	74.8	97	17.4	232	192	11.6	232	
	5	15	19	1	35	11.3	103	24.3	35	197	13.7	35	
All periods	6	2	1	-	3	1.0	146	40.8	3	213	21.1	3	
	7	1	2	-	3	1.0	142	2.6	3	222	6.5	3	
	8	-	-	-	-	-	-	-	-	-	-	-	
	9	-	-	-	-	-	-	-	-	-	-	-	
	10	-	-	-	-	-	-	-	-	-	-	-	
	11	-	-	-	-	-	-	-	-	-	-	-	
	12	-	-	-	-	-	-	-	-	-	-	-	
	13+	-	-	-	-	-	-	-	-	-	-	-	
	Total	173	136	1	310	100.0	96	20.5	310	191	13.2	310	

Table 27. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Port Gravina, Eastern District (221-30), Prince William Sound, April 4 and 5, 1980.

Sample Period	Age (years)	Sex			of		Mean (gm)	Std. Dev.	Number Weighed	Weight		Std. Length	
		Male	Female	Unknown	Total	Total				Mean (mm)	Std. Dev.	Number Measured	
4 / 4	1	-	-	-	-	-	-	-	-	-	-	-	-
	2	-	1	-	1	.7	42	-	1	150	-	1	
	3	15	10	1	26	17.4	82	13.3	26	182	8.7	26	
	4	64	53	-	117	78.5	99	14.5	117	190	10.3	117	
	5	-	5	-	5	3.4	114	16.3	5	194	6.3	5	
	6	-	-	-	-	-	-	-	-	-	-	-	
	7	-	-	-	-	-	-	-	-	-	-	-	
	8	-	-	-	-	-	-	-	-	-	-	-	
	9	-	-	-	-	-	-	-	-	-	-	-	
	10	-	-	-	-	-	-	-	-	-	-	-	
	11	-	-	-	-	-	-	-	-	-	-	-	
	12	-	-	-	-	-	-	-	-	-	-	-	
	13+	-	-	-	-	-	-	-	-	-	-	-	
Period total		79	69	1	149	100.0	96	16.6	149	188	10.8	149	
4 / 5	1	-	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-	
	3	1	3	-	4	7.7	79	16.0	4	176	13.9	4	
	4	20	20	-	40	76.9	103	15.2	40	192	7.9	40	
	5	1	6	-	7	13.5	116	13.6	7	200	5.8	7	
	6	-	1	-	1	1.9	157	-	1	224	-	1	
	7	-	-	-	-	-	-	-	-	-	-	-	
	8	-	-	-	-	-	-	-	-	-	-	-	
	9	-	-	-	-	-	-	-	-	-	-	-	
	10	-	-	-	-	-	-	-	-	-	-	-	
	11	-	-	-	-	-	-	-	-	-	-	-	
	12	-	-	-	-	-	-	-	-	-	-	-	
	13+	-	-	-	-	-	-	-	-	-	-	-	
Period total		22	30	-	52	100.0	104	18.4	52	192	10.6	52	
All periods	1	-	-	-	-	-	-	-	-	-	-	-	-
	2	-	1	-	1	.5	42	-	1	150	-	1	
	3	16	13	1	30	14.9	81	13.4	30	181	9.5	30	
	4	84	73	-	157	78.1	100	14.7	157	190	9.7	157	
	5	1	11	-	12	6.0	115	14.1	12	198	6.6	12	
	6	-	1	-	1	.5	157	-	1	224	-	1	
	7	-	-	-	-	-	-	-	-	-	-	-	
	8	-	-	-	-	-	-	-	-	-	-	-	
	9	-	-	-	-	-	-	-	-	-	-	-	
	10	-	-	-	-	-	-	-	-	-	-	-	
	11	-	-	-	-	-	-	-	-	-	-	-	
	12	-	-	-	-	-	-	-	-	-	-	-	
	13+	-	-	-	-	-	-	-	-	-	-	-	
Total		101	99	1	201	100.0	98	17.4	201	189	10.9	201	

Table 28. Age, sex and size data summary of Pacific herring sampled from the commercial gill net sac-roe harvest, Northern District (221-40), Prince William Sound, April 17, 19 and 20, 1980.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/17	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	1	2	-	3	5.4	125	5.5	3	211	5.5	3
	5	3	7	-	10	17.9	133	16.9	10	216	6.1	10
	6	17	10	-	27	48.2	138	15.1	27	220	9.8	27
	7	12	4	-	16	28.6	140	14.7	16	222	10.6	16
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		33	23	-	56	100.0	137	15.1	56	219	9.6	56
4/19	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	-	1	-	1	5.6	140	-	1	212	-	1
	5	4	-	-	4	22.2	157	11.1	4	217	5.7	4
	6	3	1	-	4	22.2	161	18.4	4	225	11.2	4
	7	4	1	-	5	27.8	147	8.4	5	216	6.2	5
	8	3	1	-	4	22.2	169	8.3	4	226	3.3	4
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		14	4	-	18	100.0	157	13.8	18	220	7.9	18
4/20	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	1	4	-	5	26.3	139	12.4	5	205	6.2	5
	5	1	-	-	1	5.3	124	-	1	209	-	1
	6	3	2	-	5	26.3	151	7.4	5	218	8.1	5
	7	1	3	-	4	21.1	153	18.0	4	219	15.0	4
	8	2	1	-	3	15.8	164	9.5	3	223	6.4	3
	9	-	1	-	1	5.3	162	-	1	230	-	1
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		8	11	-	19	100.0	149	14.9	19	216	11.0	19

-Continued-

Table 28. (page 2 of 2)

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	2	7	-	9	9.7	135	11.5	9	208	6.1	9
All periods	5	8	7	-	15	16.1	139	18.4	15	216	5.9	15
	6	23	13	-	36	38.7	143	16.4	36	220	9.7	36
	7	17	8	-	25	26.9	144	14.6	25	220	10.5	25
	8	5	2	-	7	7.5	167	8.4	7	225	4.5	7
	9	-	1	-	1	1.1	162	-	1	230	-	1
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
	Total	55	38	-	93	100.0	143	16.8	93	219	9.6	93

Table 29. Age, sex and size data summary of Pacific herring sampled from the commercial gill net sac-roe harvest, Northern District (221-60), Prince William Sound, May 2, 1980.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
5/ 2	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	2	1	-	3	10.7	124	17.5	3	200	7.0	3
	5	-	1	-	1	3.6	93	-	1	190	-	1
	6	6	4	-	10	35.7	157	29.0	10	217	14.3	10
	7	5	5	-	10	35.7	168	19.1	10	225	8.6	10
	8	2	1	-	3	10.7	160	30.8	3	223	13.6	3
	9	-	1	-	1	3.6	196	-	1	230	-	1
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		15	13	-	28	100.0	157	29.4	28	218	14.2	28

Table 30. Age, sex and size data summary of Pacific herring sampled from purse seine-caught herring utilized in the commercial pound fishery, Northern District (221-40), Prince William Sound, April 29, 1980.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/29	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	3	2	1	6	7.8	53	10.5	6	167	10.6	6
	4	32	30	2	64	83.1	76	13.1	64	188	10.1	64
	5	5	2	-	7	9.1	82	12.4	7	195	7.8	7
	6	-	-	-	-	-	-	-	-	-	-	-
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		40	34	3	77	100.0	75	14.3	77	187	11.7	77

Table 31. Age, sex and size data summary of Pacific herring sampled from the commercial bait/food fishery, Eastern District (221-30), Prince William Sound, October 8 and 27, 1980.^a

Sample Period	Age (years)	Sex			Percent of		Weight			Std. Length		
		Male (No.)	Female (No.)	Unknown (No.)	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
10/8	1	-	-	-	-	-	-	-	-	-	-	-
	2	1	5	-	6	3.9	70	11.8	6	170	7.3	6
	3	10	38	-	48	31.2	73	18.4	48	173	11.6	48
	4	29	37	-	66	42.9	90	25.6	66	183	16.0	66
	5	8	10	-	18	11.7	103	19.9	18	190	11.9	18
	6	8	3	-	11	7.1	96	18.7	11	181	13.2	11
	7	3	2	-	5	3.2	97	20.3	5	188	9.9	5
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		59	95	-	154	100.0	86	24.1	154	180	14.9	154
10/27	1	-	-	-	-	-	-	-	-	-	-	-
	2	1	1	-	2	13.3	73	19.1	2	164	10.6	2
	3	1	-	-	1	6.7	82	-	1	174	-	1
	4	3	3	-	6	40.0	79	23.5	6	176	12.7	6
	5	2	1	-	3	20.0	74	22.5	3	170	13.1	3
	6	1	-	-	1	6.7	80	-	1	179	-	1
	7	1	-	-	1	6.7	98	-	1	189	-	1
	8	1	-	-	1	6.7	86	-	1	187	-	1
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		10	5	-	15	100.0	79	18.3	15	175	11.8	15
All periods	1	-	-	-	-	-	-	-	-	-	-	-
	2	2	6	-	8	4.7	71	12.4	8	168	7.9	8
	3	11	38	-	49	29.0	73	18.3	49	173	11.5	49
	4	32	40	-	72	42.6	89	25.5	72	183	15.8	72
	5	10	11	-	21	12.4	98	22.2	21	188	13.8	21
	6	9	3	-	12	7.1	95	18.4	12	181	12.6	12
	7	4	2	-	6	3.6	97	18.2	6	188	8.9	6
	8	1	-	-	1	.6	86	-	1	187	-	1
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Total		69	100	-	169	100.0	86	23.6	169	180	14.7	169

^a Although the original data file indicates that the associated bait/food harvest was obtained from the Eastern District, the harvest was probably obtained from the Knowles Head area which is located within the General District.

Table 32. Age, sex, and size data summary of Pacific herring sampled from the commercial purse seine bait/food harvest, Prince William Sound, September 15 through November 17, 1980.^a

Sample Period	Age (years)	Sex			Percent		Weight			Std. Length		
		Male (No.)	Female (No.)	Unknown (No.)	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
	1	-	-	-	-	-	-	-	-	-	-	-
	2	2	6	-	8	4.7	70	-	-	168	-	-
	3	12	39	-	51	30.0	74	-	-	172	-	-
	4	33	38	-	71	41.8	89	-	-	183	-	-
	5	10	11	-	21	12.4	95	-	-	188	-	-
All periods	6	9	3	-	12	7.1	95	-	-	182	-	-
	7	4	2	-	6	3.5	90	-	-	184	-	-
	8	1	-	-	1	0.6	86	-	-	187	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		71	99	-	170	100.0	85	-	-	179	-	-

^a Raw data file unavailable. Table modified from Table 45 of the 1980 PWS Annual Management Report (Randall et al. 1981)

Table 33. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Montague District (227-20), Prince William Sound, April 3 and 8, 1981.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/ 3	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	1	-	-	1	1.3	70	-	1	180	-	1
	4	10	5	-	15	19.0	88	9.5	15	187	7.3	15
	5	31	27	-	58	73.4	107	13.6	58	199	8.0	58
	6	2	2	-	4	5.1	115	14.7	4	198	7.5	4
	7	-	1	-	1	1.3	164	-	1	228	-	1
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		44	35	-	79	100.0	104	16.8	79	197	9.8	79
4/ 8	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	1	-	-	1	2.9	57	-	1	172	-	1
	4	6	2	-	8	23.5	106	22.2	8	204	9.8	8
	5	15	8	-	23	67.6	116	23.0	23	208	11.4	23
	6	2	-	-	2	5.9	108	7.8	2	201	4.9	2
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		24	10	-	34	100.0	111	23.9	34	205	12.2	34
All periods	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	2	-	-	2	1.8	64	9.2	2	176	5.7	2
	4	16	7	-	23	20.4	94	16.9	23	193	11.3	23
	5	46	35	-	81	71.7	110	17.1	81	202	9.9	81
	6	4	2	-	6	5.3	113	12.5	6	199	6.3	6
	7	-	1	-	1	.9	164	-	1	228	-	1
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Total		68	45	-	113	100.0	106	19.3	113	199	11.2	113

Table 34. Age, sex and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Eastern District (221-30), Prince William Sound, April 29 and 30, 1981.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	(gm)	Mean Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/29	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	2	1	-	3	4.2	76	13.7	3	181	10.1	3
	4	7	5	-	12	16.9	111	14.2	12	200	7.7	12
	5	27	20	-	47	66.2	113	14.7	47	199	13.9	47
	6	5	4	-	9	12.7	125	21.4	9	209	6.1	9
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		41	30	-	71	100.0	112	17.6	71	200	13.0	71
4/30	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	1	-	-	1	1.9	80	-	1	183	-	1
	4	3	5	-	8	15.1	102	18.3	8	194	11.4	8
	5	15	24	-	39	73.6	114	14.7	39	201	7.1	39
	6	3	1	-	4	7.5	119	19.9	4	206	8.7	4
	7	1	-	-	1	1.9	158	-	1	215	-	1
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		23	30	-	53	100.0	113	17.6	53	200	8.8	53
All periods	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	3	1	-	4	3.2	77	11.4	4	181	8.3	4
	4	10	10	-	20	16.1	107	16.2	20	197	9.6	20
	5	42	44	-	86	69.4	113	14.7	86	200	11.3	86
	6	8	5	-	13	10.5	123	20.3	13	208	6.8	13
	7	1	-	-	1	.8	158	-	1	215	-	1
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Total		64	60	-	124	100.0	113	17.6	124	200	11.4	124

)

Table 35. Age, sex, and size data summary of Pacific herring sampled from the commercial gill net sac-roe harvest, Galena Bay, Northern District (221-50), Prince William Sound, April 16, 17, 24, and 28, 1981.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Measured Number
4/16	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-	-	-	-
	5	6	6	-	12	41.4	122	8.6	12	215	5.3	12
	6	1	9	-	10	34.5	129	10.6	10	215	8.7	10
	7	4	2	-	6	20.7	132	10.6	6	227	5.7	6
	8	-	1	-	1	3.4	160	-	1	224	-	1
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		11	18	-	29	100.0	128	11.8	29	218	8.0	29
4/17	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-	-	-	-
	5	6	13	-	19	40.4	124	15.0	19	218	7.3	19
	6	6	9	-	15	31.9	119	12.6	15	216	6.8	15
	7	6	2	-	8	17.0	129	11.6	8	220	8.6	8
	8	2	3	-	5	10.6	128	14.9	5	221	12.6	5
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		20	27	-	47	100.0	124	13.8	47	218	7.9	47
4/24	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-	-	-	-
	5	8	18	-	26	53.1	127	15.2	26	214	8.2	26
	6	8	8	-	16	32.7	134	12.6	16	218	8.0	16
	7	3	1	-	4	8.2	143	9.6	4	224	5.6	4
	8	-	1	-	1	2.0	142	-	1	227	-	1
	9	1	1	-	2	4.1	141	29.7	2	173	75.7	2
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		20	29	-	49	100.0	131	15.0	49	215	16.3	49

-Continued-

Table 35. (page 2 of 2)

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/28	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	1	-	-	1	5.0	120	-	1	207	-	1
	5	5	3	-	8	40.0	123	14.5	8	215	5.9	8
	6	2	1	-	3	15.0	144	23.1	3	221	8.7	3
	7	2	4	-	6	30.0	146	16.2	6	227	9.2	6
	8	1	1	-	2	10.0	144	8.5	2	225	10.6	2
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		11	9	-	20	100.0	135	18.4	20	220	9.5	20
All periods	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	1	-	-	1	.7	120	-	1	207	-	1
	5	25	40	-	65	44.8	125	13.9	65	215	7.2	65
	6	17	27	-	44	30.3	128	14.8	44	217	7.7	44
	7	15	9	-	24	16.6	136	13.7	24	224	7.8	24
	8	3	6	-	9	6.2	136	16.0	9	223	9.9	9
	9	1	1	-	2	1.4	141	29.7	2	173	75.7	2
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Total		62	83	-	145	100.0	129	15.0	145	217	11.7	145

Table 36. Age, sex, and size data summary of Pacific herring sampled from purse seine-caught herring utilized in the commercial pound fishery, Northern District (221-40), Prince William Sound, April 24, 27, and 28, 1981.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/24	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	2	2	-	4	11.4	95	27.8	4	200	14.5	4
	5	12	12	-	24	68.6	111	13.0	24	204	19.8	24
	6	2	1	-	3	8.6	111	12.8	3	213	4.0	3
	7	2	1	-	3	8.6	126	32.4	3	216	22.1	3
	8	-	1	-	1	2.9	116	-	1	239	-	1
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		18	17	-	35	100.0	110	17.5	35	206	19.1	35
4/27	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-	-	-	-
	4	9	2	-	11	21.2	81	16.2	11	192	10.0	11
	5	22	15	-	37	71.2	103	19.0	37	205	9.9	37
	6	3	1	-	4	7.7	88	12.1	4	200	10.1	4
	7	-	-	-	-	-	-	-	-	-	-	-
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		34	18	-	52	100.0	97	20.2	52	202	11.2	52
4/28	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	1	-	-	1	3.2	78	-	1	188	-	1
	4	2	-	-	2	6.5	63	15.6	2	178	14.1	2
	5	17	-	-	17	54.8	88	11.1	17	198	8.9	17
	6	6	-	-	6	19.4	96	17.5	6	202	10.4	6
	7	2	2	-	4	12.9	100	19.0	4	203	8.9	4
	8	1	-	-	1	3.2	128	-	1	225	-	1
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		29	2	-	31	100.0	90	17.0	31	198	11.6	31

-Continued-

Table 36. (page 2 of 2)

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
	1	-	-	-	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-	-	-	-
	3	1	-	-	1	.8	78	-	1	188	-	1
	4	13	4	-	17	14.4	82	20.2	17	192	12.4	17
	5	51	27	-	78	66.1	102	17.8	78	203	13.7	78
All periods	6	11	2	-	13	11.0	97	16.4	13	204	10.0	13
	7	4	3	-	7	5.9	111	26.9	7	208	15.8	7
	8	1	1	-	2	1.7	122	8.5	2	232	9.9	2
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
	Total	81	37	-	118	100.0	99	20.0	118	202	14.3	118

Table 37. Age, sex, and size data summary of Pacific herring sampled from the commercial bait/food harvest, Orca Bay, Prince William Sound, September 15-30, 1981. ^{a b}

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male (No.)	Female (No.)	Unknown (No.)	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
	1	-	-	-	-	-	-	-	-	-	-	-
	2	8	6	-	14	3.4	61	-	-	161	-	-
	3	41	29	-	70	17.2	76	-	-	179	-	-
	4	61	53	-	114	28.0	87	-	-	180	-	-
	5	63	56	-	119	29.2	96	-	-	184	-	-
All periods	6	36	21	-	57	14.0	96	-	-	192	-	-
	7	8	5	-	13	3.2	107	-	-	195	-	-
	8	10	8	-	18	4.4	107	-	-	192	-	-
	9	1	1	-	2	0.5	101	-	-	176	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
	Period total	228	179	-	407	100.0	89	-	-	182	-	-

^a Raw data file unavailable. Table modified from Table 48 of the 1981 PWS Annual Management Report (Randall et al. 1982).

^b Gear type used was either purse seine, trawl or both.

Table 38. Age, sex, and size data summary of Pacific herring sampled from the commercial purse seine sac-roe harvest, Bligh Island, Northern District (221-40), Prince William Sound, April 13, 1982.

Sample Period	Age (years)	Sex			Percent of Total		Weight			Std. Length		
		Male	Female	Unknown	Total	Total	Mean (gm)	Std. Dev.	Number Weighed	Mean (mm)	Std. Dev.	Number Measured
4/13	1	-	-	-	-	-	-	-	-	-	-	-
	2	1	-	5	6	3.1	35	5.1	6	145	4.7	6
	3	39	39	12	90	46.6	55	20.8	90	164	16.2	90
	4	29	29	1	59	30.6	66	15.5	59	175	11.7	59
	5	10	8	1	19	9.8	74	21.3	19	181	15.8	19
	6	5	6	1	12	6.2	102	27.0	12	199	12.3	12
	7	3	4	-	7	3.6	104	21.7	7	201	16.2	7
	8	-	-	-	-	-	-	-	-	-	-	-
	9	-	-	-	-	-	-	-	-	-	-	-
	10	-	-	-	-	-	-	-	-	-	-	-
	11	-	-	-	-	-	-	-	-	-	-	-
	12	-	-	-	-	-	-	-	-	-	-	-
	13+	-	-	-	-	-	-	-	-	-	-	-
Period total		87	86	20	193	100.0	65	24.3	193	172	18.5	193

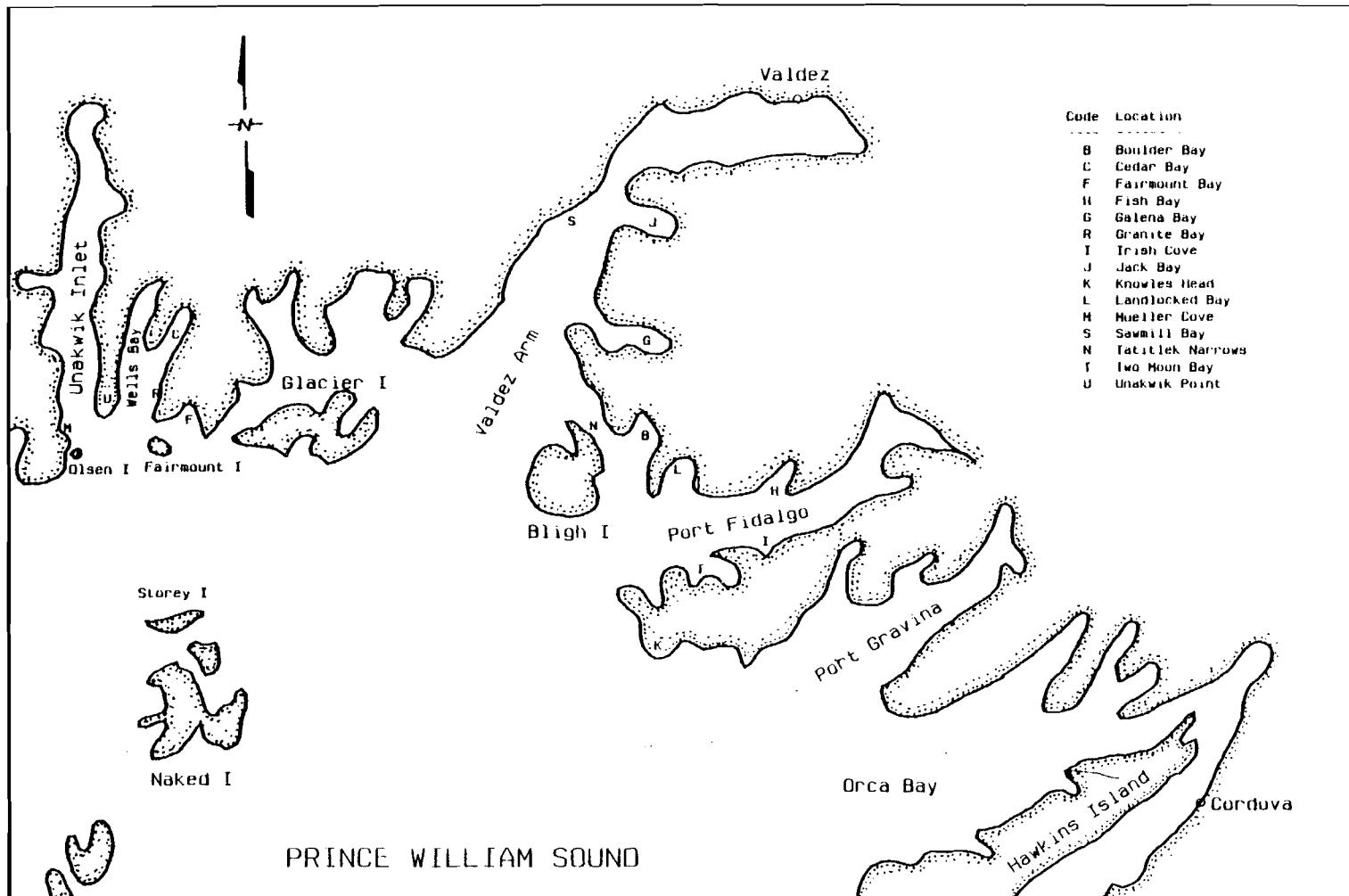


Figure 2. Location map: Northeastern Prince William Sound